Ministry of
Northern Development
and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

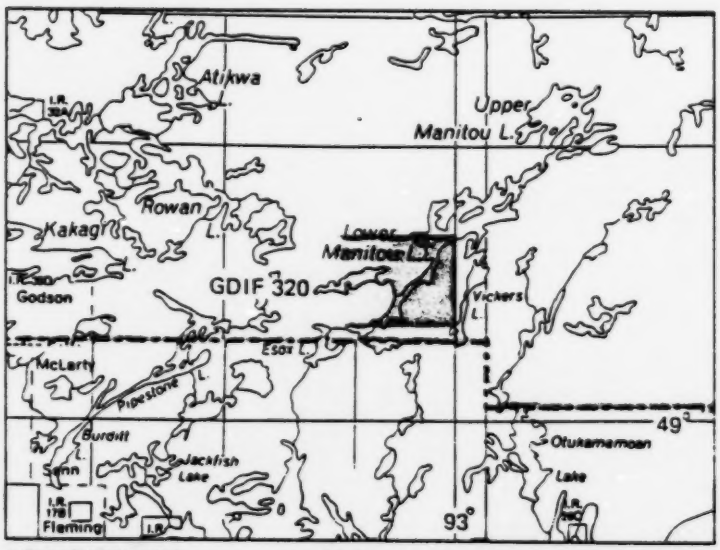
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 320

NAPANEE LAKE AREA

DISTRICT OF KENORA

Compiled by the Staff of
the Resident Geologist's Office
Kenora



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

87-01242/ TS Number 52F/03 NE

Mining Claim Map Number Napanee Lake Area, G-2690, (M-2469)

This project was funded by the former Ontario Ministry of Northern Affairs through the Northern Ontario Geological Survey (NOGS) Program.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1986: Napanee Lake Area, District of Kenora; Ontario Geological Survey, Geological Data Inventory Folio 320 ; compiled by the staff of the Resident Geologist's Office, Kenora, 22 pages and 2 maps.

Original Compilation by: M.R. Patterson , C.B. Ravnaas

Date	Page Revised	Revised by

Date	Page Revised	Revised by

Napanee Lake Area

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ACCOMPANYING MAPS

Property Location Map - 1 Map
Exploration Data Map - 1 Map
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 478 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	MRP FEB/86
2	Assessment Files Research Office, Toronto	NO	MRP FEB/86
3	ODM General Index; 9 volumes	YES	MRP FEB/86
4	Catalogue of Airborne Geophysical Surveys (ODM)		
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	MRP FEB/86
6	ODM Industrial Mineral Reports	NO	MRP FEB/86
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	MRP FEB/86
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	MRP FEB/86
9	Newspaper Clippings File	YES	MRP FEB/86
10	GSC Index to Publications		
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	MRP FEB/86
12	OGS Index Maps	YES	MRP FEB/86
13	Source Mineral Deposit Records (O.G.S.) and MDIR'S	YES	MRP FEB/86
14	Author - Subject Articles File		
15	Miscellaneous Papers: ODM & OGS	YES	MRP FEB/86
16	ODM Geological Circulars: OGS Study Series	NO	MRP FEB/86
17	ODM Preliminary Reports: ODM Bulletins	YES	MRP FEB/86
18	ODM – OGS Open File Reports	YES	MRP FEB/86
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	MRP FEB/86
20	OGS Aggregate Resources Inventory Papers	NO	MRP FEB/86
21	OGS Mineral Potential Maps	YES	MRP FEB/86
22	Theses on File, Kenora	YES	MRP FEB/86
23	Aerial Photos on File, Kenora	YES	MRP FEB/86
24	OBM Maps on File, Kenora	NO	MRP FEB/86

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . Anhydrite
- △ ank. . . . . Ankerite
- △ anna. . . . . Annabergite
- △ ap. . . . . Apatite
- △ arg. . . . . Argentite
- △ As. . . . . Arsenic
- ▲ asp. . . . . Arsenopyrite
- △ asb. . . . . Asbestos
- △ ba. . . . . Barite
- △ be. . . . . Beryl
- △ Bi. . . . . Bismuth
- △ bn. . . . . Bornite
- △ bran. . . . . Brannerite
- △ bruc. . . . . Brucite
- △ Cd. . . . . Cadmium
- △ calc. . . . . Calcite
- △ carb. . . . . Carbonate
- △ cel. . . . . Celestite
- △ cc. . . . . Chalcocite
- ▲ cp. . . . . Chalcopyrite
- △ ch. . . . . Chert
- △ clay. . . . . Clay
- △ Co. . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . Columbite
- ▲ Cu. . . . . Copper
- △ cor. . . . . Corundum
- △ dol. . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery. . . . . Erythrite
- △ fel. . . . . Feldspar
- △ fl. . . . . Fluorite (flurospar)
- △ fu. . . . . Fuchsite
- △ gn. . . . . Galena
- △ gt. . . . . Garnet
- △ goe. . . . . Goethite
- ▲ Au. . . . . Gold
- △ gf. . . . . Graphite
- △ gl. . . . . Gravel
- △ gyp. . . . . Gypsum
- △ hem. . . . . Hematite
- △ il. . . . . Ilmenite
- △ Fe. . . . . Iron
- △ IF. . . . . Iron Formation
- △ jas. . . . . Jasper
- △ kaol. . . . . Kaolinite (kaolin)
- △ ky. . . . . Kyanite
- △ Pb. . . . . Lead
- △ lim. . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst. . . . . Magnesite
- △ mag. . . . . Magnetite
- △ mc. . . . . Malachite
- △ Mn. . . . . Manganese
- △ mb. . . . . Marble
- △ mar. . . . . Marcasite
- △ ma. . . . . Marl
- △ mi. . . . . Mica
- △ ml. . . . . Millerite
- △ mo. . . . . Molybdenite
- △ Mo. . . . . Molybdenum
- △ mon. . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . Niccolite
- △ Ni. . . . . Nickel
- △ Nb. . . . . Niobium
- △ Pd. . . . . Palladium
- △ peat. . . . . Peat
- △ pent. . . . . Pentlandite
- △ Pt. . . . . Platinum
- ▲ py. . . . . Pyrite
- △ pyl. . . . . Pyrochlore
- △ pyrl. . . . . Pyrolusite
- △ po. . . . . Pyrrhotite
- △ q. . . . . Quartz
- △ qcv. . . . . Quartz carbonate vein
- △ ra. . . . . Radioactive minerals
- △ RE. . . . . Rare Earths
- △ sd. . . . . Sand
- △ sgl. . . . . Sand and gravel
- △ ss. . . . . Sandstone
- △ scap. . . . . Scapolite
- △ shee. . . . . Scheelite
- △ serp. . . . . Serpentine
- △ sh. . . . . Shale
- △ sid. . . . . Siderite
- △ si. . . . . Silica
- ▲ Ag. . . . . Silver
- △ sl. . . . . Slate
- △ sm. . . . . Smaltite
- △ sod. . . . . Sodalite
- △ spec. . . . . Specularite
- △ sp. . . . . Sphalerite
- △ spd. . . . . Spodumene
- △ staur. . . . . Staurolite
- △ stib. . . . . Stibnite
- △ st. . . . . Stone
- △ talc. . . . . Talc
- △ Te. . . . . Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . Thorite
- △ Th. . . . . Thorium
- △ thuc. . . . . Thucholite
- △ ti. . . . . Titanite
- △ Ti. . . . . Titanium
- △ tour. . . . . Tourmaline
- △ trap. . . . . Trap rock
- △ W. . . . . Tungsten
- △ uran. . . . . Uraninite
- △ U. . . . . Uranium
- △ verm. . . . . Vermiculite
- △ Y. . . . . Yttrium
- ▲ Zn. . . . . Zinc
- △ zr. . . . . Zircon
- ▲ Sb. . . . . Antimony

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Austin Occurrence	Sb		MDC 16, p.7	1941, 1942: Trenching and Drilling of 5 drill holes. Results of 3.74% Sb over 3.2 ft.
B	Birch Bay Gold Mines Occurrences	Au, Ag, asp, py			1940's: Trenching and Drilling by Birch Bay Gold Mines. (No work on file). 1984, 1985: Trenching and Drilling by Sparton Resources. Results to 0.42 oz/ton Au over 3.3 ft. and 1.4 oz/ton Ag over 6.6 ft.
C	Gates Lake Occurrences	Au, py, asp, Sb	K0423	MDC 16, p.17	1940-1944: Trenching and Drilling on the Gates Lake and center zones. Values to 0.16 oz/ton Au over 10 ft. reported from rusty shears.
D	Gold Standard G340 Prospect	Au	K0165	MDC 16, p.19	1901: 150 ft. shaft with 20 ft. of drifting on 8 ft. quartz vein in schistose green trap.
E	Gold Standard HW 271 Prospect	Au, py, cp	K0165	MDC 15, p.19	1903: 6ft. X 9ft. Vertical shaft to 95 ft. with 146 ft. of cross-cutting and raising on 80 ft. level. NNE striking vein in granular trap. Grab samples to 1.8 oz/ton Au.

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
F	Sairy Gamp Occurrence (G149)	Au		MDC 16, p. 35	1901: 5 ft. X 8 ft. vertical shaft to 75 ft. with 24 ft. of crosscutting on 70 ft. level. NE striking veins chlorite schist and green trap.
G	Sparton Resources Peep Bay Occurrences	Au, Ag, asp, py			Trenches 1, 4, 6 yielded assays up to 0.42 oz/ton Au and 0.5 oz/ton Ag in intermediate volcanics and sheared felsic tuffs. Assessment file 52F/03 NE; K-5.
H	Sparton Resources Sorry Mac Occurrences	Au, Ag, py, asp			Three trenches in sheared intermediate to felsic volcanics with up to .34 oz/ton Au and 1.8 oz/ton Ag over 3.3 ft. Assessment file 52F/03 NE; K-5.
I	Syndicate Lake Occurrence	sp, cp			Mineralized graphitic and siliceous schists with 1% cp and 1%sp over 2.4 ft. Intersected by Inco D.D.H. 42800. Assessment file 52F/03 NE; B-3.

GDIF FORM NO. 1

Napanee Lake Area

TYPE OF WORK	Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1. Agassiz Resources Ltd. 52F/3 NE; N-1 AFRO file: 2.8456	85				85													
2. Austin Antimony Syndicate 52F/3 NE; A-1	41		41	42	41													
3. Black Gold Oil and Gas Ltd. 52F/3 NE; P-1 AFRO file: 2.8512											85[1]	85[2]						
4. Canadian Nickel Co. Ltd. 52F/3 NE; B-1				71														
5. Canadian Nickel Co. Ltd. 52F/3 NE; B-2				69														
6. Canadian Nickel Co. Ltd. 52F/3 NE; B-3				69/ 70														
7. Canadian Nickel Co. Ltd. 52F/3 NE; B-4				69														
8. Gates Lake Area - Sylvanite 52F/3 NE; H-1							40											

Note 1 - Magnetic Data available from line 40 W - 56 W.

Note 2 - VLF data presented but no interpretation available.

GDIP FORM 7

TYPE OF WORK

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
	COMPANY/AUTHOR (file number)																			
9.	Gates Lake Area - Noranda 52F/3 NE; H-2							40												
10.	Jalna Resources Ltd. 52F/7 SW; 2-2 AFRO file: 2.8276								85	85										
11.	Noranda Exploration Co. Ltd. 52F/3 NE; F-1 AFRO file: 2.1634											74	74							
12.	Noranda Exploration Co. Ltd. 52F/3 NE; F-2 AFRO file: 2.7513		84														84			
13.	Noranda Exploration Co. Ltd. 52F/3 NE; F-3 AFRO file: 2.7553	84										84			84					
14.	Noranda Exploration Co. Ltd. 52F/3 NE; F-4 AFRO file: 2.7647		84																	
15.	Portelance, Robert 52F/3 NE; I-1			81																
16.	Portelance, Robert 52F/3 NE; I-2			82																
17.	Sennol Resources Ltd. 52F/2 SW; A-1 AFRO file: 2.7191	84																		

(Out Form No.

Napanee Lake Area

TYPE OF WORK	Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
18. Silver Lake Resources Inc. 52F/3 NE; E-1 AFRO file: 2.7802											84[3]	84[3]							
19. Silver Lake Resources Inc. 52F/3 NE; E-2 AFRO file: 2.7766											84[4]	84[4]							
20. Silver Lake Resources Inc. 52F/3 NE; E-3 AFRO file: 2.8246		84																	
21. Sparton Resources Inc. 52F/3 NW; N-1 AFRO file: 2.6617											83/ 84	83/[5] 84							
22. Sparton Resources Inc. 52F/3 NE; K-2					84														
23. Sparton Resources Inc. 52F/3 NE; K-3		84[6]		85	85														
24. Sparton Resources Inc. 52F/3 SE; F-3 AFRO file: 2.8234								85	85										

Note 3 - Anomaly positions uncertain on eastern end of 52 N baseline.

Note 4 - Anomaly positions uncertain on western end of 52 N baseline.

Note 5 - VLF data presented but no interpretation available.

Note 6 - Soil Geochemistry not submitted for assessment. Results found on drill hole location map.

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
25.	Sparton Resources Inc. 52F/3 NE; K-5	84		84		84						84	84[7]							
26.	Van Enk, Rein 52F/3 NE; L-1 AFRO file: 2.7115	83																		
27.	Wright, R.J. (Teck Expl. Ltd.) 52F/3 NE; J-1 AFRO file: 2.7286											84	84							
28.	Wright, R.J. (Teck Expl. Ltd.) 52F/3 NE; J-2 AFRO file: 2.7284											84	84							
29.	Wright, R.J. (Teck Expl. Ltd.) 52F/3 NE; J-3 AFRO file: 2.7257											84	84							

Note 7 - VLF data presented but no interpretation available.

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
1. a	Austin Antimony Syndicate[1]	1	1942	180°					
b	Austin Antimony Syndicate[1]	2, 2a	1942	180°					
c	Austin Antimony Syndicate[1]	3	1942	162°					
d	Austin Antimony Syndicate[1]	4	1942	210°					
e	Austin Antimony Syndicate[1]	5	1942	180°					
2.	Canadian Nickel Co. Ltd.	42717	Aug./69	180°	-45°	14.0	888.0	py, po, cp, gf, asp, or stib	
3.	Canadian Nickel Co. Ltd.	42718	Sep./69	322°	-45°	5.0	149.0	py, po	
4.	Canadian Nickel Co. Ltd.	42720	July/69	307°	-50°	5.0	164.0	po, py, cp	
5.	Canadian Nickel Co. Ltd.	42721	Aug./69	307°	-45°	5.0	150.0	po, py, cp	
6.	Canadian Nickel Co. Ltd.	42722	Aug./69	307°	-45°	5.0	162.0	po, cp	
7.	Canadian Nickel Co. Ltd.	42723	Aug./69	312°	-45°	5.0	106.0	po, py, cp, sp	
8.	Canadian Nickel Co. Ltd.	42724	Aug./69	110°	-45°	0.0	113.0	po, py, cp, sp	
9.	Canadian Nickel Co. Ltd.	42725	Sep./69	322°	-45°	5.0	174.0	po, py	
10.	Canadian Nickel Co. Ltd.	42726	Sep./69	128°	-45°	3.0	115.0	po, py, gf	
11.	Canadian Nickel Co. Ltd.	42727	Sep./69	350°	-50°	21.0	147.0	py, po, mag	

Note 1 - No logs on file, information very sketchy.

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
12.	Canadian Nickel Co. Ltd.	42728	Sep./69	053°	-45°	4.0	135.0	py, po, gf, cp, sp	
13.	Canadian Nickel Co. Ltd.	42730	Sep./69	328°	-45°	5.0	115.0	gf, py, po	
14.	Canadian Nickel Co. Ltd.	42731	Sep./69	135°	-50°	5.0	101.0	gf, py	
15.	Canadian Nickel Co. Ltd.	42798	Oct./70	078°	-45°	8.0	153.0	po, py, sp	
16.	Canadian Nickel Co. Ltd.	42800	Oct./70	074°	-45°	4.0	160.0	py, po, sp, cp	
17.	Canadian Nickel Co. Ltd.	48511	Jan./71	360°	-50°	180.0	308.0	py, gf	
18.	Sparton Resources Inc.	PB-1-85	July/85	310°	-50°	22.0	253.0	py, po, mag	Au
19.	Sparton Resources Inc.	PB-2-85	July/85	310°	-50°	7.0	252.0	py, mag, sid	Au
20.	Sparton Resources Inc.	SM-1-85	July/85	130°	-45°	12.0	402.0	py, asp, mag	Au
21.	Sparton Resources Inc.	SM-3-85	July/85	130°	-45°	13.0	248.0	py, asp, po	Au
22.	Sparton Resources Inc.	SM-4-85	Aug./85	130°	-45°	16.0	203.0	py, asp, mag	Au
23.	Sparton Resources Inc.	SM-5-85	Aug./85	130°	-45°	28.0	293.0	py, asp	Au
24.	Sparton Resources Inc.	SM-6-85	Aug./85	130°	-45°	12.0	253.0	py, mag	Au
25.	Sparton Resources Inc.	SM-7-85	Aug./85	036°	-70°	18.0	112.0	py, asp, mag	Au

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude (feet)	Flight Line Direction	Flight Line Spacing (feet)
10.	Geotech Ltd. Jalna Resources Ltd. 52F/7 SW; Z-2	Electromagnetic, Magnetic, VLF	200	NW/SE	660
24.	Geotech Ltd. Sparton Resources Inc. 52F/3 SE; F-3	Electromagnetic, Magnetic, VLF	200	NW/SE and N/S	660

GDIF FORM NO. 4

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
1.	Lithogeochemistry	Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K, W, Au, Hg	Noranda Exploration Co. Ltd.	Assessment File: 52F/3 NE; F-2
2.	Humus	Au, As, Sb	Noranda Exploration Co. Ltd.	Assessment File: 52F/3 NE; F-4
3.	Soil (B Horizon)	Au	Silver Lake Resources Inc.	Assessment File: 52F/3 NE; E-3
4.	Soil	Au, As	Sparton Resources Inc.	Assessment File: 52F/3 NE; K-3

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

No age dating on file as of Feb. 14, 1986.

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

Jalna Resources Limited

Silver Lake Resources Inc.

Sparton Resources Inc.

Teck Exploration Limited

ODM GENERAL INDEX SEARCH

Words searched: Austin Occurrence, Gates Lake, Golden Cradle, Gold Standard, G 340, HW 271, Manitou Lake, Manitou Stretch, Sairy Gamp, Sairey Gamp.

Index Volume	Listing:	Report Volume	Part	Page
I	Gold Standard Mg. Co.			
	Capital and Date of Charter,	13	I	38
	Mine, Photo,	12		48, 49
	Work (1900),	10		100
	(1901),	11		250
	(1903),	13		68
	Manitou Lake Area.			
	Mining, Notes (1900),	10		100
	(1901),	11		250
	(1903),	13	I	68
	Sairey Gamp Lake.			
	Near Manitou Lake,	6		87
	Gold Mining,	10		100
	Suspended,	11		250
III	Gold Standard Gold Mines.			
	Nelson Lake, Mineralization,	43	4	21
IX	Austin Occurrence.			
	Lower Pipestone L.,	MDC 16		7
	Gates Lake Occurrence.			
	Lower Manitou L. Area,	MDC 16		17
	Gold Standard (G 340) Occurrence.			
	Lower Manitou L. Area,	MDC 16		19
	Gold Standard (HW 271) Occurrence.			
	Lower Manitou L. Area,	MDC 16		19
	Sairy Gamp Occurrence.			
	Lower Manitou L. Area,	MDC 16		35

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL COMPILATION MAPS		
Beard, R.C., Garrett, G.L.	1976	Gold Deposits of the Kenora-Fort Frances Area, Districts of Kenora and Rainy River. Accompanied by Chart A.	MDC 16	1" to 4 miles (1:253,440)
Blackburn, C.E.	1981	Kenora - Fort Frances, Kenora and Rainy River Districts. Geological Compilation Series.	OGS Map 2443	1" to 4 miles (1:253,440)
Davies, J.C.	1964	Manitou Lakes Sheet, Districts of Kenora and Rainy River. Geological Compilation Series.	ODM Map P. 242	1" to 2 miles (1:126,720)
Gordon, J.B.	1977	Gold Deposits of Ontario, West Central Sheet, Districts of Kenora (Patricia Portion), Thunder Bay, Algoma and Cochrane. Mineral Deposits Series.	OGS Map P. 1227	1" to 16 miles (1:1,013,760)
McInnes, W.	1902	Manitou Lake Sheet, District of Rainy River, Province of Ontario.	GSC Map No. 720	1" to 4 miles (1:253,440)
		GEOPHYSICAL MAPS		
GEO-ANALYSIS (1981) Ltd.	1981	The Identification of Structural Linears From Landsat Imagery In Northwestern Ontario. Energy, Mines and Resources Canada, Earth Physics Branch, Seismological Service of Canada.	OF 82 - 13	9 Images at 1:250,000 5 Maps at 1:1,000,000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
O.D.M. - G.S.C.	1961	Harris Lake, Sheet 52F/3. Aeromagnetic Series.	Geophysics Paper 1160	1" to 1 mile (1:63,360)
O.G.S. - G.S.C.	1977	Airborne Gamma-Ray Spectrometry Survey, Dryden Sheet Districts of Kenora and Rainy River. Geophysical Series.	Prelim. Maps P. 1460 to P. 1466	1" to 4 miles (2:253,440)
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Roed, M.A.	1980	Rowan Lake Area, Districts of Kenora and Rainy River Northern Ontario Engineering Geology Terrain Study. Accompanied by Map 5060.	NOEGTS 37	1:100,000
Zoltai, S.C.	1965	Surficial Geology, Kenora - Rainy River. Ont. Dept. of Lands and Forests.	MAP S165	1" to 8 miles (1:506,880)
		MINERAL POTENTIAL MAPS		
Springer, J.S., Robertson, J.A., Vos, M.A.	1982	Mineral Potential Map of Ontario, West Central Sheet NTS 41 NW, 42 W, 43 SW, 52, 53 SE.	OFR 5326	1" to 16 miles (1:1,013,760)
Springer, J.S.	1978	Dryden Sheet, Districts of Kenora and Rainy River. Mineral Deposits Series.	OGS Map P. 1530	1:250,000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Blackburn, C.E., Bond, W.D., Breaks, F.W., Davis, D.W., Edward, G.R., Poulsen, K.H., Trowell, N.F., Wood, J.	1985	Evolution of Archean Volcanic - Sedimentary Sequences of the Western Wabigoon Subprovince and its Margins: A Review; GAC Special Paper 28, edited by Ayres, L.D., Thurston, P.C., Card, K.D., Weber, W.	GAC Special Paper 28	p. 89 - 116
Carter, W.E.H.	1901	Mines of Northwestern Ontario: Part II; Ontario Dept. of Mines Annual Report for 1901.	ODM Vol. 10	p. 90 - 112
Carter, W.E.H.	1902	The Mines of Ontario; Ontario Dept. of Mines, Annual Report for 1902.	ODM Vol. 11	p. 231 - 309
Goodwin, A.M.	1965	Preliminary Report on Volcanism and Mineralization in the Lake of the Woods - Manitou Lake - Wabigoon Region of Northwestern Ontario.	ODM PR 1965-2	1" to 4 miles (1:253,440)
Goodwin, A.M.	1970	Archean Volcanic Studies in the Lake of the Woods - Manitou Lake - Wabigoon Region of Northwestern Ontario.	ODM OFR 5042	47 pages
Mackasey, W.O., Blackburn, C.E., Trowell, N.F.	1974	A Regional Approach to the Wabigoon - Quetico Belts and its Bearing on Exploration in Northwestern Ontario.	ODM MP 58	29 pages
Ont. Dept. of Lands, Forests and Mines	1907	Map of part of the District of Rainy River, exhibiting the country in the vicinity of Wabigoon, Dryden, the Manitou Gold Fields and along the Lake Superior Branch of the Grand Trunk Pacific Railway.		1" to 2 miles (1:126,720)

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Thomson, Jas, E.	1934	Geology of the Straw-Manitou Lakes Area; Ontario Dept. of Mines, Annual Report for 1934. Accompanied by Map 43a.	ODM Vol. 43 Part 4	1" to 1 mile (1;63,360)
		THESIS		
Teal, Phillip Rae	1979	Stratigraphy, Sedimentology, Volcanology and Development of the Archean Manitou Group, Northwestern Ontario; Ph.D. Thesis, McMaster University.		291 pages

GDIF FORM NO.9

NOTES AND ADDENDA

AERIAL PHOTOGRAPH INDEX

Scale 1" to ¼ mile. (OGS)

1982

Line	Photo Numbers
4906	112 - 124
4907	127 - 139
4908	81 - 93
4909	1 - 12
4910	30 - 42

1976

Roll	Line	Photo Numbers
28	4905	176 - 190
22	4906	237 - 250
23	4907	120 - 133
23	4908	39 - 52
20	4909	206 - 219
20	4910	122 - 135

Scale 1" to 1 mile. (EMR)

1952

A13559	80 - 83 *
A13565	54 - 56 *

* Photographs on file in Resident Geologist's Office, Kenora.

ONTARIO BASE MAP SERIES

Scale 1:20,000

20 13 4800 54400
20 13 4800 54500
20 13 4900 54400
20 13 4900 54500

Note: None of these maps are currently available.

GDIF FORM NO.10

MINERAL DEPOSITS FILE

Note: A deposits file is maintained at the Kenora Resident Geologist's Office, which contains the published data on the following mineral deposits:

1. Aurora Occurrence
2. Austin Occurrence
3. Gates Lake Occurrences
4. Gold Standard Mine
5. Golden Cradle Occurrence
6. Sairy Gamp Occurrence
7. Syndicate Lake Occurrence

Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 320

(Map 1 of 2)

NAPANEE LAKE AREA

DISTRICT OF KENORA

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

■ 1/① ④ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- Airborne radiometric anomaly
- Ground magnetic anomaly
- Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop;
  VLF - Very low freq; Turam; JEM
  Crone Em - 16)
- Ground radiometric anomaly
- Induced polarization anomaly
- Self potential anomaly
- Audio-frequency magnetic anomaly
  (total intensity)
- Resistivity anomaly
- Gravity anomaly
- Airborne VLF Anomaly

Note: All ground electromagnetic anomalies are VLF anomalies unless stated otherwise.

MISCELLANEOUS DATA

- Trenching, pit
- Rock quarry
- Adit
- Sand and/or gravel pit
- Open pit
- Island

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

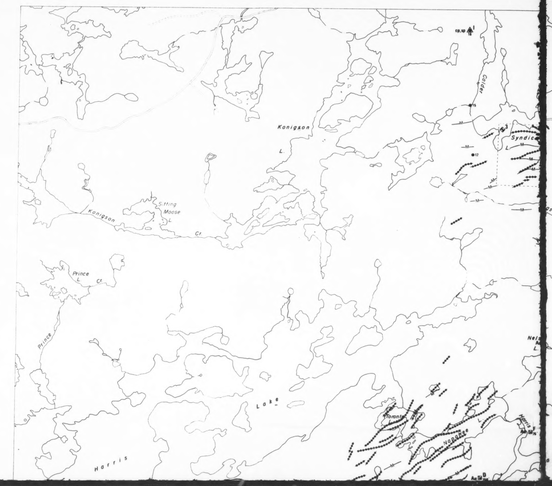
- Resistivity anomaly
- Gravity anomaly
- Airborne VLF Anomaly

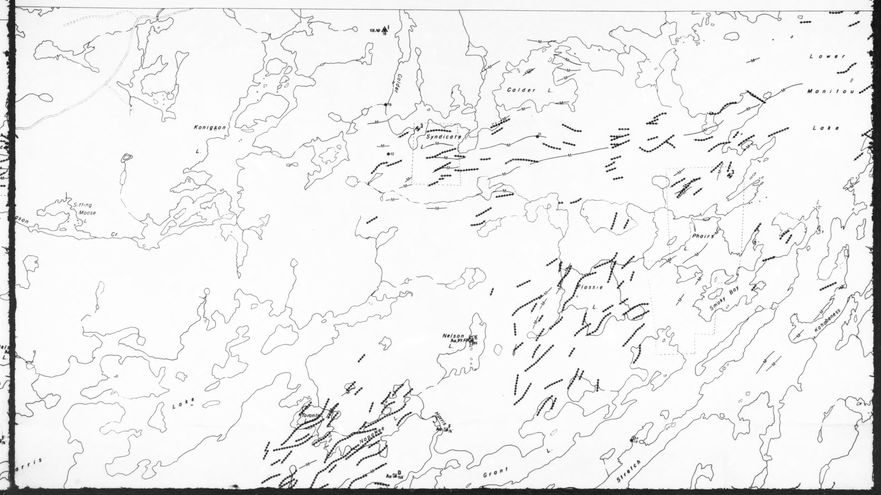
Note: All ground electromagnetic anomalies are VLF anomalies unless stated otherwise.

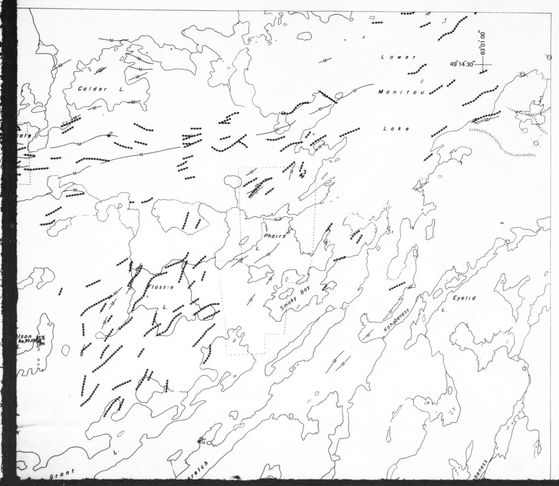
MISCELLANEOUS DATA

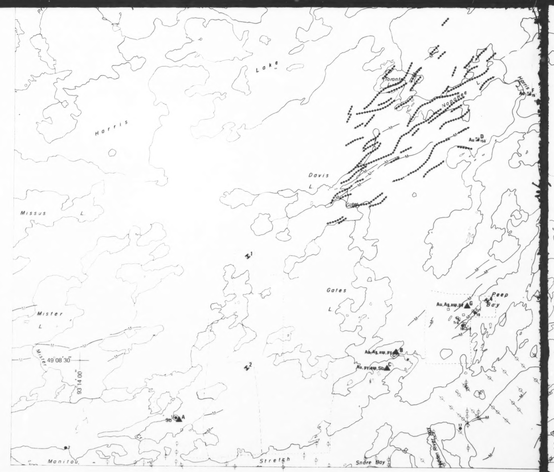
- Trenching, pit
- Rock quarry
- Adit
- Sand and/or gravel pit
- Open pit
- Island

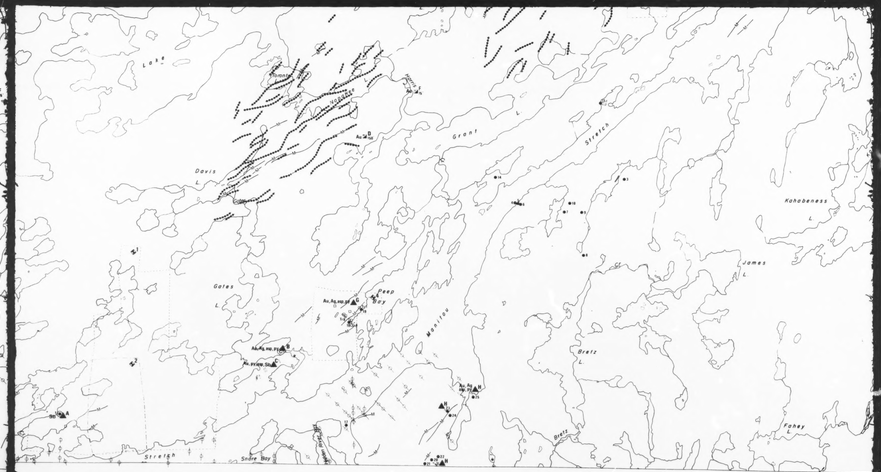
NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

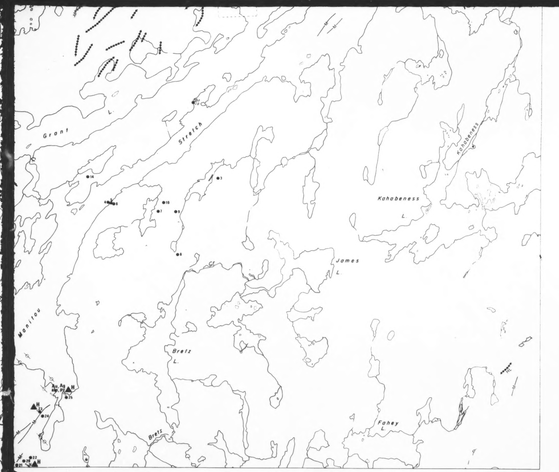












Ministry of Northern Development and Mines
Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 320

(Map 2 of 2)

NAPANEE LAKE AREA

DISTRICT OF KENORA

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference letter

DRILLHOLE

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number

- Mineralized float with reference letter

DRILLHOLE

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number